

## SEQUENCE LISTING

&lt;110&gt; Allen, Keith D.

<120> TRANSGENIC MICE CONTAINING THYROID  
STIMULATING HORMONE RECEPTOR (TSH-R) GENE DISRUPTIONS

&lt;130&gt; R-666

&lt;150&gt; US 60/243,895

&lt;151&gt; 2000-10-26

&lt;160&gt; 4

&lt;170&gt; FastSEQ for Windows Version 4.0

&lt;210&gt; 1

&lt;211&gt; 2512

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 1

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 35 40 45  
 Ser Leu Pro Pro Ser Thr Gln Thr Leu Lys Leu Ile Glu Thr His Leu  
 50 55 60  
 Lys Thr Ile Pro Ser Leu Ala Phe Ser Ser Leu Pro Asn Ile Ser Arg  
 65 70 75 80  
 Ile Tyr Leu Ser Ile Asp Ala Thr Leu Gln Arg Leu Glu Pro His Ser  
 85 90 95  
 Phe Tyr Asn Leu Ser Lys Met Thr His Ile Glu Ile Arg Asn Thr Arg  
 100 105 110  
 Ser Leu Thr Tyr Ile Asp Pro Asp Ala Leu Thr Glu Leu Pro Leu Leu  
 115 120 125  
 Lys Phe Leu Gly Ile Phe Asn Thr Gly Leu Arg Ile Phe Pro Asp Leu  
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 Thr Lys Ile Tyr Ser Thr Asp Ile Phe Phe Ile Leu Glu Ile Thr Asp  
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 165 170 175  
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 180 185 190  
 Gln Gly His Ala Phe Asn Gly Thr Lys Leu Asp Ala Val Tyr Leu Asn  
 195 200 205  
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 210 215 220  
 Tyr Ser Gly Pro Thr Leu Leu Asp Val Ser Ser Thr Ser Val Thr Ala  
 225 230 235 240  
 Leu Pro Ser Lys Gly Leu Glu His Leu Lys Glu Leu Ile Ala Lys Asp  
 245 250 255  
 Thr Trp Thr Leu Lys Lys Leu Pro Leu Ser Leu Ser Phe Leu His Leu  
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 Thr Arg Ala Asp Leu Ser Tyr Pro Ser His Cys Cys Ala Phe Lys Asn  
 275 280 285  
 Gln Lys Lys Ile Arg Gly Ile Leu Glu Ser Leu Met Cys Asn Glu Ser  
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 Pro Ile Tyr Gln Glu Tyr Glu Glu Asp Pro Gly Asp Asn Ser Val Gly  
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 Tyr Lys Gln Asn Ser Lys Phe Gln Glu Ser Pro Ser Asn Ser His Tyr  
 340 345 350  
 Tyr Val Phe Phe Glu Glu Gln Glu Asp Glu Val Val Gly Phe Gly Gln  
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 420 425 430  
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 435 440 445  
 Pro Arg Phe Leu Met Cys Asn Leu Ala Phe Ala Asp Phe Cys Met Gly  
 450 455 460  
 Val Tyr Leu Leu Leu Ile Ala Ser Val Asp Leu Tyr Thr His Ser Glu  
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 Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Pro Gly Cys Asn Thr  
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 Ala Gly Phe Phe Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu  
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 Thr Val Ile Thr Leu Glu Arg Trp Tyr Ala Ile Thr Phe Ala Met Arg  
 515 520 525  
 Leu Asp Arg Lys Ile Arg Leu Arg His Ala Tyr Thr Ile Met Ala Gly  
 530 535 540  
 Gly Trp Val Ser Cys Phe Leu Leu Ala Leu Leu Pro Met Val Gly Ile  
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 Ala Phe Val Val Val Cys Ser Cys Tyr Val Lys Ile Tyr Ile Thr Val  
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 Arg Asn Pro Gln Tyr Asn Pro Arg Asp Lys Asp Thr Lys Ile Ala Lys  
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 Arg Met Ala Val Leu Ile Phe Thr Asp Phe Met Cys Met Ala Pro Ile  
 625 630 635 640  
 Ser Phe Tyr Ala Leu Ser Ala Leu Met Asn Lys Pro Leu Ile Thr Val  
 645 650 655  
 Thr Asn Ser Lys Ile Leu Leu Val Leu Phe Tyr Pro Leu Asn Ser Cys  
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 Ala Asn Pro Phe Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp  
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 Val Phe Ile Leu Leu Ser Lys Phe Gly Ile Cys Lys Arg Gln Ala Gln  
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 Ala Tyr Gln Gly Gln Arg Val Cys Pro Asn Asn Ser Thr Gly Ile Gln  
 705 710 715 720  
 Ile Gln Lys Ile Pro Gln Asp Thr Arg Gln Ser Leu Pro Asn Met Gln  
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200

&lt;210&gt; 4

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